

Title (en)
STRUCTURED-CORE LAMINATE PANELS AND METHODS OF FORMING THE SAME

Title (de)
LAMINATTAFFELN MIT STRUKTURIERTEM KERN UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)
PANNEAUX STRATIFIÉS À ÂME STRUCTURÉE ET LEURS PROCÉDÉS DE FAÇONNAGE

Publication
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Application
EP 10775381 A 20100511

Priority
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Abstract (en)
[origin: WO2010132422A2] A structured-core laminate panel can be made in an efficient, structurally sound manner without the use of adhesives (film or liquid forms) using materials with different melt or glass transition temperatures. In one implementation, a manufacturer positions one or more resin substrates about a structured core, which comprises a relatively high melt or glass transition temperature compared with that of the one or more resin substrates. The manufacturer heats the assembly to at least the glass transition temperature of the resin substrates, but not to the melt or glass transition temperature of the structured core. This allows the one or more resin substrates to melt and bond (mechanically, chemically, or both) to the structured core on one side (or inner surface), while maintaining a substantially planar or original conformation on an opposing side (or outer surface).

IPC 8 full level
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